PROJECT DESCRIPTION

GENERAL

THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF A TEMPORARY TRAFFIC CONTROL SIGNAL AND INTERSECTION LIGHTING AT THE INTERSECTION OF US 29 AND TEMPORARY RAMP *I IN HOWARD COUNTY.

US 29 RUNS IN A NORTH/SOUTH DIRECTION.

INTERSECTION OPERATION

A SYSTEM READY CONTROLLER WITH FIVE (5) DETECTOR AMPLIFIERS RACK MOUNT HOUSED IN A POLE MOUNTED CABINET ARE TO BE INSTALLED AT THIS LOCATION. THE INTERSECTION IS TO OPERATE IN A NEMA FOUR (4) PHASE MODE. THERE WILL BE EXCLUSIVE LEFT TURN FOR THE NORTHBOUND MOVEMENTS WILL RUN CONCURRENTLY, AND SIDE ROAD MOVEMENT WILL OPERATE ALONG

MOVEMENT WILL OPERATE ALONE.

PROJECT CONTACTS:

MR. R. FISHER, DISTRICT ENGINEER

PHONE: (301) 624-8101 MR. JOHN CONCANNON, ASSISTANT DISTRICT ENGINEER- TRAFFIC

PHONE: (301) 624-8141 MR. LEON KERNS, ASSISTANT DISTRICT ENGINEER- MAINTENANCE

PHONE: (301) 624-8106 MR. JAMES BUCLALEW, ASSISTANT DISTRICT ENGINEER- UTILITY

PHONE:(301) 624-8116 MR. RICHARD L. DAFF, SR., CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

MAINTENANCE OF TRAFFIC

MAINTENANCE OF TRAFFIC SHALL BE COORDINATED WITH THE PRIME ROADWAY CONTRACTORS WORK SCHEDULE AT ALL TIMES.

CONSTRUCTION NOTES

I. ALL TRAFFIC SIGNAL WORK SHALL BE COORDINATED WITH THE ROADWAY CONTRACTOR'S SCHEDULE.

2. ALL PROPOSED FOUNDATIONS SHALL BE INSTALLED TO FINAL GRADE ELEVATION.

3. THE SIGNAL CONTRACTOR MUST VERIFY THE LOCATIONS OF THE TEMPORARY GEOMETRICS PRIOR TO INSTALLING SIGNAL EQUIPMENT, 4. UNLESS NOTED ON THE SIGNAL PLANS, ALL TEMPORARY PAVEMENT MARKINGS WILL BE INSTALLED BY THE ROADWAY CONTRACTOR.

5. ALL TEMPORARY SIGNAL EQUIPMENT SHALL BE REMOVED AND SALVAGED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER.

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION.

12' ONE-WAY. THREE SECTION (RA.YA.GA) POLYCARBONATE			QUANTITY	
SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE	814	EA	2	
12' ONE-WAY, THREE SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE	814	EA	6	
A SYSTEM READY S.H.A. TRAFFIC SIGNAL CONTROLLER, POLE MOUNTED AND FIVE (5) DETECTOR AMPLIFIERS RACK MOUNT	816	EA	ſ	
SHEET ALUMINUM SIGNS	813	SF	122.5	
30"x 36" R3-5(L) SIGN - SPAN WIRE MOUNTING		EA	2	
60"x 60" W3-3 SIGN WITH TEMP PANEL AND FLAGS GROUND MOUNTING		EÁ	4	
30"x 36" R3-5(R) SIGN - SPAN WIRE MOUNTING		EÆ	1	
	12" ONE-WAY, THREE SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE A SYSTEM READY S.H.A. TRAFFIC SIGNAL CONTROLLER, POLE MOUNTED AND FIVE (5) DETECTOR AMPLIFIERS RACK MOUNT SHEET ALUMINUM SIGNS 30"× 36" R3-5(L) SIGN - SPAN WIRE MOUNTING 60"× 60" W3-3 SIGN WITH TEMP PANEL AND FLAGS GROUND MOUNTING	I2" ONE-WAY, THREE SECTION (R, Y, G) POLYCARBONATE SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE A SYSTEM READY S.H.A. TRAFFIC SIGNAL CONTROLLER, POLE MOUNTED AND FIVE (5) DETECTOR AMPLIFIERS RACK MOUNT SHEET ALUMINUM SIGNS 813 30"× 36" R3-5(L) SIGN - SPAN WIRE MOUNTING 60"× 60" W3-3 SIGN WITH TEMP PANEL AND FLAGS GROUND MOUNTING	I2" ONE-WAY, THREE SECTION (R,Y,G) POLYCARBONATE SIGNAL HEAD WITH SPAN WIRE MOUNTING HARDWARE A SYSTEM READY S.H.A. TRAFFIC SIGNAL CONTROLLER, POLE MOUNTED AND FIVE (5) DETECTOR AMPLIFIERS RACK MOUNT SHEET ALUMINUM SIGNS 813 SF 30"× 36" R3-5(L) SIGN - SPAN WIRE MOUNTING 60"× 60" W3-3 SIGN WITH TEMP PANEL AND FLAGS GROUND MOUNTING EA EA	

B. EQUIPMENT TO BE FURNISHED AND OR INSTALLED BY THE CONTRACTOR.

TEM NO.:	DESCRIPTION	SPECIFICATION SECTION	UNIT	QUANTITY
	MAINTENANCE OF TRAFFIC	104	LS	LUMP SUM
	MOBILIZATION	108	LS	LUMP SUM
	TEST PIT	205	EA	4
	24" WIDE TEMPORARY PAVEMENT MARKING - WHITE FOR STOP LINE	SP	LF	115
	TEMPORARY LEFT ARROW- WHITE	SP	EA	4
	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT	801	CY	13.0
	12' X 32' GALVANIZED STEEL POLE (four-21/4" × 96" ANCHOR BOLTS)	8/8	EA	3
	HANDHOLE	8(1	EA	9
	SAWCUT FOR SIGNAL LOOP DETECTOR	815	LF	660
	1" LIQUID TIGHT FLEXIBLE NON-METALIC CONDUIT FOR LOOP DETECTOR SLEEVE	805	LF	55
	2-CONDUCTOR (ALUMINUM SHIELED) ELECTRICAL CABLE (No.: 14 A.W.G.)	810	LF	3625
	2-CONDUCTOR ELECTRICAL TRAY CABLE (No.: 12 A.W.G.)	8I O	LF	400
	2 " POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED	805	LF	1305
	3-WIRE (NO.: 4 A.W.G.) ELECTRICAL CABLE	8I O	LF	20
	3 " POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED	805	LF	35
	4 " POLYVINYL CHLORIDE [SCHEDULE 80] ELECTRICAL CONDUIT - TRENCHED	805	LF	85
	5-CONDUCTOR ELECTRICAL CABLE (No.: 14 A.W.G.)	8i O	LF	800
	7-CONDUCTOR ELECTRICAL CABLE (No.: 14 A.W.G.)	8! 0	LF	335
	3/8" STEEL SPAN WIRE	804	LF	355
	1/4" STEEL SPAN WIRE	804	LF	200
	BARE COPPER STRANDED GROUND WIRE (NO. 6 A.W.G.)	804	LF	100
	GROUND ROD -3/4" DIAMETER × 10' LENGTH	804	EA	3
	15'_ LUMINAIRE ARM	806	EA	I
	250 WATT H.P.S.LAMP AND LUMINAIRE WITH PHOTOCELL	806	EA	2
	4"× 6" WOOD SIGN SUPPORTS	812	LF	84
	CONTROL AND DISTRIBUTION EQUIPMENT	807	EA	1
	LOOP DETECTOR WIRE (NO.: 14 A.W.G.) ENCASED IN FLEXIBLE TUBING	8i O	LF	2350
	00/ 1184194195 APM	806	F.A.	1

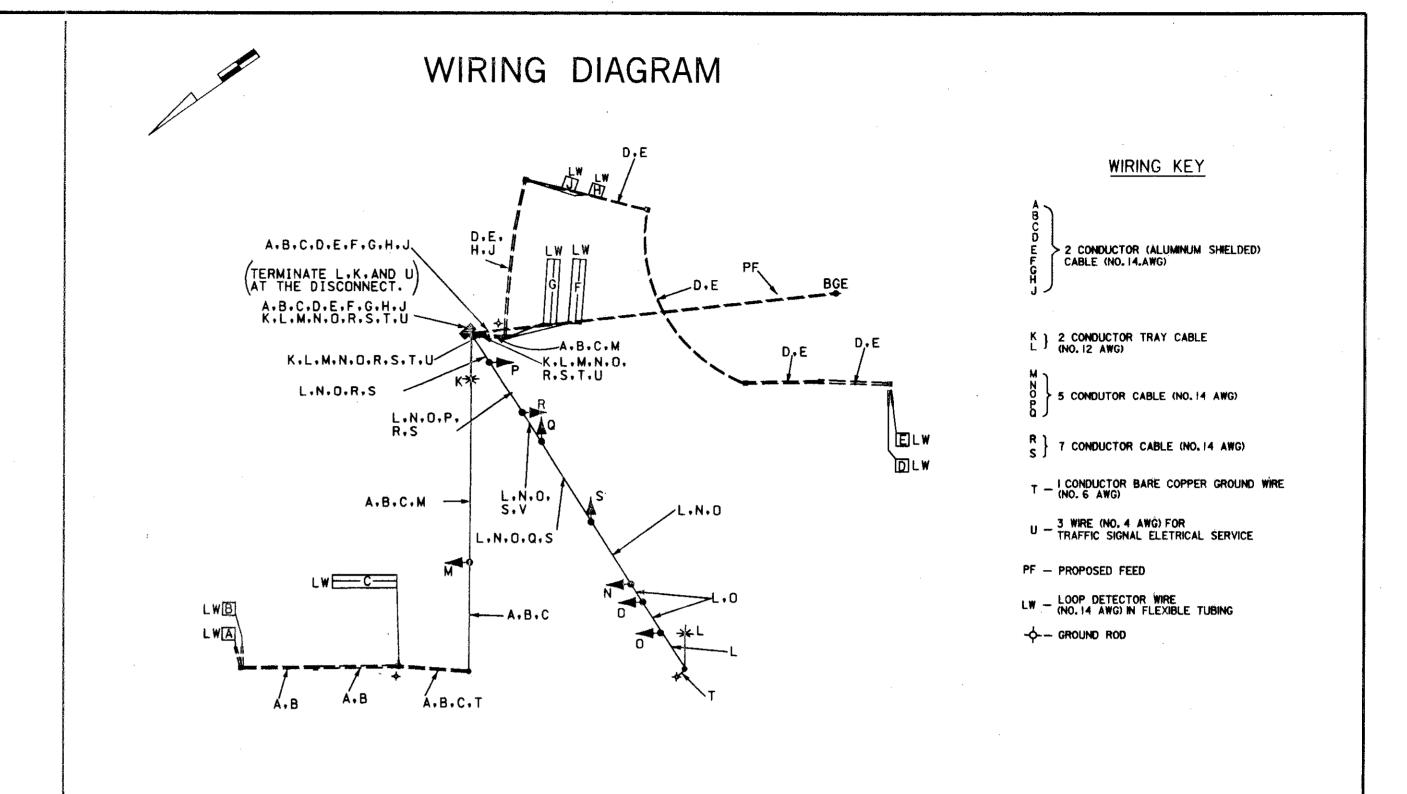
20' LUMINAIRE ARM

B. EQUIPMENT TO BE FURNISHED AND OR INSTALLED BY THE CONTRACTOR.

DESCRIPTION	SPECIFICATION SECTION	UNIT	QUANTITY	
INSTALL SIGNAL HEADS	814	EA	8	
INSTALL POLE MOUNTED CABINET	816	EA	1	
INSTALL GROUND MOUNTED SIGN	813	SF	100	
INSTALL OVERHEAD SIGN - SPAN WIRE MOUNT	813	SF	22.5	
REMOVAL AND SALVAGE OF ENTIRE SIGNAL	SP	LS	LUMP SUM	
* DELIVERY OF REMOVAL SIGNAL EQUIPMENT	SP	EA	1	
	INSTALL SIGNAL HEADS INSTALL POLE MOUNTED CABINET INSTALL GROUND MOUNTED SIGN INSTALL OVERHEAD SIGN — SPAN WIRE MOUNT REMOVAL AND SALVAGE OF ENTIRE SIGNAL	DESCRIPTION INSTALL SIGNAL HEADS 814 INSTALL POLE MOUNTED CABINET INSTALL GROUND MOUNTED SIGN INSTALL OVERHEAD SIGN - SPAN WIRE MOUNT REMOVAL AND SALVAGE OF ENTIRE SIGNAL SECTION 813 SECTION 814 815 SP	DESCRIPTION INSTALL SIGNAL HEADS INSTALL POLE MOUNTED CABINET INSTALL GROUND MOUNTED SIGN INSTALL GROUND MOUNTED SIGN INSTALL OVERHEAD SIGN - SPAN WIRE MOUNT REMOVAL AND SALVAGE OF ENTIRE SIGNAL SECTION B14 EA SF SF INSTALL OVERHEAD SIGN - SPAN WIRE MOUNT SF LS	

C. EQUIPMENT TO BE REMOVED AND RETURNED TO THE SHA SIGNAL WAREHOUSE.

ALL SHA FURNISHED MATERIALS LISTED IN EQUIPMENT LIST "A"



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1 2 3 4 5 6 7 8

PHASE 1	R	R	⊸G	∢ G	R	R	R	R	A
1 CHANGE	R	R	→ Y-	→ Y-	R	R	R	R	and the state of t
PHASE 2 AND 6	G	G	∢ R−	→ R-	G	G	R	R	.
2 AND 6 CHANGE	Y	Y	∢ R-	∢ R-	Y	Υ	R	R	
PHASE 4	R	R	∢ R–	∢ R-	R	R	G	G	
4 CHANGE	R	R	∢ R–	⊸ R–	R	R	Υ	Υ	₩
FLASHING	FLOV	F 1 04							→
OPERATION	FL/Y	Y FL/Y	FL/R	FL/R	R FL/Y	FL/Y	FL/R	FL/R	

TSP-2 OF 4

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety

(GENERAL INFORMATION PLAN)

TRAFFIC ENGINEERING DESIGN DIVISION

US 29 AND TEMPORARY RAMP #1 (RAMP 'A')

M.A. MEARS CHECKED BY: S. RENZI NONE

APPROVALS

ASST. TRAFFIC ENGINEERING DESIGN DIVISION

REVISIONS

COUNTY: NOVEMBER, 1998

F.A.P. NO. S.H.A. NO. H03065370 13002901.64 LOG MILE:

GI 3851 SHEET NO. T.I.M.S. NO. 159 OF 254

TS NO.

SABRA, WANG & ASSOCIATES, INC. 9881 BROKEN LAND PARKWAY SUITE 105 COLUMBIA, MD 21046